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STATE OF COLORADO



1960

ANNUAL REPORT

DEPARTMENT OF NATURAL RESOURCES

COAL MINE INSPECTION DIVISION

STATE OF COLORADO



1960

ANNUAL REPORT



DEPARTMENT OF NATURAL RESOURCES

COAL MINE INSPECTION DIVISION

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LETTER OF TRANSMITTAL

April 1, 1961

To His Excellency
Steve McNichols
Governor of Colorado

Sir:

It is an honor to submit to you the Annual Report of the State Coal Mine Inspection Division, Department of Natural Resources of Colorado, for the year ending December 31, 1960.

Respectfully,

THOMAS ALLEN
Chief Inspector of Coal Mines

Approved:

Edward L. Clark
Director of Natural Resources



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PERSONNEL OF DEPARTMENT

CHIEF COAL MINE INSPECTOR - THOMAS ALLEN

Office - 306 State Services Bldg.
Denver 3, Colorado
Telephone - AC 2-9911
Ext. 2616
Home - 1285 Albion St.,
Denver 20,
Telephone - FR 7-5572

DEPUTY INSPECTORS - (Counties within each district)

Dist. #1 - DONALD HASKE - 4561 Perry St., Denver 12
Telephone - GR 7-9295
(El Paso, Fremont, Jackson and Weld)

Dist. #2 - OSCAR T. RICE - 401 State Street, Trinidad
Telephone - Victor 6-2634
(Huerfano and Las Animas)

Dist. #3 - GRANT McCONNELL - P.O. Box 385, New Castle
Telephone - New Castle 984-2370
(Garfield, Moffat, Pitkin, Rio Blanco and Routt)

Dist. #4 - JOHN J. RODDY - 1404 White Avenue, Grand Junction
Telephone - CHapel 2-5915
(Delta, Gunnison, La Plata, Mesa, and Montrose)

GENERAL OFFICE

| | |
|-------------------------------------|--|
| Administrative Assistant | Veda Burford 1610 Magnolia St., Denver 20 FRemont 7-4317 |
| Account Clerk | Evelyn Miller 3357 W. 36th Ave., Denver 11 |
| Intermediate Clerk-Stenographer ... | Sharon Phelps |
| Clerk-Stenographer | Sara M. Smith |

BOARD OF EXAMINERS FOR COAL MINE OFFICIALS

Thomas Allen, Chief Inspector - 306 State Services Bldg., Denver 3
Fred W. Whiteside, E.M., Secretary - 356 Lafayette St., Denver 18
Walter E. Gert, P.O. Box 31, Meeker
Frank Kolar, Jr., 2028 W. 9th Street, Longmont
Mathew J. Mlakar, P.O. Box 271, Somerset

TABLE OF CONTENTS

| | <u>Page</u> |
|---|-------------|
| INTRODUCTORY COMMENTS | 1-3 |
| HONOR ROLL - SAFETY RECORD | 2 |
| SUMMARY OF FIELD WORK | 3 |
| FINANCIAL STATEMENT FOR CALENDAR YEAR | 3 |
| GENERAL SUMMARY OF 1960 STATISTICS | 4-5 |
| DIRECTORY OF OPERATORS: Listing Mines, Addresses; R.R. ; Daily Capacity; Openings & Seams | 6-15 |
| PRODUCTION - BY COUNTY, BY MINES: Listing Operator; Men Employed; Days Worked; Production and Accidents | 16-21 |
| SHIPMENT AND DISPOSAL, BY COUNTY | 22 |
| SIZES AND GRADES OF COAL, BY COUNTY | 23 |
| MECHANICAL LOADING - MACHINERY & TONNAGES | 24-25 |
| COAL PRODUCTION - 1864 TO DATE | 26 |
| ACCIDENT STATISTICS - FATALITIES LISTED FIVE-YEAR COMPARISONS | 27 |
| SUCCESSFUL CANDIDATES - COAL MINE OFFICIALS | 28 |

INTRODUCTORY COMMENTS

Coal production has been declining during the last eight years throughout the United States, but Colorado has been fortunate in showing an increase during the last two years comparable to the tonnage of 1952, showing an increase of 330,886 tons over 1959.

An increase of almost 17,000 tons of coal were furnished from two mines by conveyors direct to power plants, and the tonnage more than doubled from the strip mine in Montrose County that supplies coal by truck to the power plant near Nucla.

The four Deputy Inspectors are to be commended for the splendid work done throughout the year. In addition to more than the minimum of four (4) inspections per mine each year, over 200 check inspections were made for compliance with recommendations made for increased safety or violations of the State Coal Mining Laws. The Inspectors investigated over 100 complaints made against mine management and officials from written and verbal statements. It is recommended that future complaints be based on proven facts of violations, to prevent unnecessary time and expense to the department, but every effort will be made to correct well-founded accusations of unsafe practices.

No new mine fires occurred during 1960, but a constant check was made where old fires exist, some of which became reactivated. Seals were repaired or added where necessary to insure control. Three tipples were destroyed by fires: Joe's Mine in Routt County, Maitland #2 in Huerfano County and Vento Mine in Fremont County. The office of the Red Wing Mine in Moffat County was completely destroyed by fire.

The following members of the Board of Examiners for Coal Mine Officials were sworn into office in 1960:

Fred W. Whiteside, Denver, Engineer, appointed by Governor Steve McNichols; Walter E. Gert, Miner, Meeker, appointed by Judge C. H. Darrow of the 9th Judicial District; Frank Kolar, Jr., Official, Longmont, appointed by Judge William E. Buck of the 8th Judicial District; and Mathew J. Mlakar, Miner, Somerset, appointed by Judge George Kempf of District #7.

Examinations for officials were held on December 3, 1960 with 29 candidates in Trinidad and 35 in Denver. A list of successful candidates appears on page 28 of this report. There is a definite

need for more educational classes in all phases of coal mining practices, with emphasis on mine gases and ventilation.

The State Legislature created a Department of Natural Resources in 1957. In 1959, Governor Steve McNichols appointed Dr. Edward L. Clark as Director over 17 agencies including this department. The Director of Natural Resources, qualified in mining experience, is also the Commissioner of Mines.

The increasing number of requests for information of coal reserves in this State, historical records and maps of mines and coal fields, stresses the importance of research work in readily accessible form, for future developments of industries dependent on coal.

HONOR ROLL FOR 1960 - 50,000 or more man-hours per injury.

| <u>Mine</u> | <u>Company</u> | <u>County</u> | <u>Fatal</u> | <u>Non-Fatal</u> | <u>Man-Hours Per Injury</u> |
|-------------|-------------------|---------------|--------------|------------------|-----------------------------|
| Allen | C. F. & I. Corp. | Las A. | | 2 | 269,697 |
| Frederick | C. F. & I. Corp. | Las A. | | 4 | 139,907 |
| Eagle | Imperial Coal | Weld | | 1 | 100,953 |
| Sterling | McNeil Coal Corp. | Weld | | | 50,141 |

HONORABLE MENTION - 20,000 to 50,000 man-hours per injury

| <u>Mine</u> | <u>Company</u> | <u>County</u> | <u>Fatal</u> | <u>Non-Fatal</u> | <u>Man-Hours Per Injury</u> |
|-----------------|---------------------|---------------|--------------|------------------|-----------------------------|
| Edna Strip | Edna Coal Co. | Routt | | | 49,931 |
| Bear | Bear Coal Co. | Gunnison | | 1 | 44,141 |
| Boulder Val. #3 | Boulder Valley Coal | Weld | | 2 | 43,473 |
| Washington | Clayton Coal | Weld | | 5 | 39,514 |
| Somerset | Minerals Dev. Corp. | Gunnison | | 3 | 38,772 |
| Dutch Creek | Mid-Continent C & C | Pitkin | 1 | 2 | 37,278 |
| Red Wing | Colowyo Coal | Moffat | | 2 | 34,025 |
| King | Juanita Coal & Coke | Delta | | 1 | 33,200 |
| Hawk's Nest | Champion Coal Mng. | Gunnison | | | 33,172 |
| ThompsonCr. #2 | Thompson Crk. C&C | Pitkin | | 1 | 31,544 |
| Imperial | Imperial Coal | Weld | | 1 | 25,862 |
| ThompsonCr. #1 | Thompson Crk. C&C | Pitkin | | 7 | 23,109 |
| Osage Strip | P & M Coal Mng. | Routt | | 3 | 23,601 |
| Cardinal | Dry Creek Coal | Routt | | 1 | 22,502 |

SUMMARY OF FIELD WORK

| | |
|---|-----|
| Number of inspections | 668 |
| Number of check inspections | 211 |
| Complaints investigated | 103 |
| Mines closed for non-compliance with recommendations | 19 |
| Fatal accidents investigated | 2 |
| Examinations for Shot Firer | 21 |
| Suspension of official's certificates | 2 |

FINANCIAL STATEMENT FOR THE CALENDAR YEAR

RECEIPTS

| | | |
|--------------------------------------|------------------|------------------|
| Cash Balance, January 1, 1960 | | \$ 2,859.39 |
| Coal Tax | \$25,908.80 | |
| License Fees | 5,510.00 | |
| Misc.-Sale of Law Books & Old Equip. | 690.44 | |
| General Fund Appropriation | <u>36,069.37</u> | |
| Total | | <u>68,178.61</u> |
| | | \$71,038.00 |

EXPENDITURES

| | | |
|---|---------------|------------------|
| Salaries-Field, Office, Brd. of Examiners | 51,748.99 | |
| Travel-Hotel, Meals, Gasoline, etc. | 5,482.05 | |
| Equipment-Field & Office | 2,198.39 | |
| Workmen's Compensation | 1,391.00 | |
| Telephone & Telegraph | 1,159.16 | |
| Rent-Field & Office | 1,042.59 | |
| Maintenance & Repair of Equipment | 989.43 | |
| Supplies-Field & Office | 550.70 | |
| Postage & Express | 394.99 | |
| Printing | 329.07 | |
| Misc.-Car Insurance, Surety Bonds, Blueprints, Janitor Service | <u>266.39</u> | |
| Total | | <u>65,552.76</u> |
| Cash. Balance, January 1, 1961 | | \$ 5,485.24 |

GENERAL SUMMARY OF THE COLORADO COAL STATISTICS FOR 1960

| <u>MINES REPORTING PRODUCTION - PRODUCTION IN SHORT TONS</u> | | | | |
|--|-------------|--------------|----------|---------------|
| <u>GRADES</u> | | <u>SIZES</u> | | |
| Bituminous | 2, 871, 978 | Mine Run | 881, 238 | |
| Sub-Bituminous | 752, 594 | Lump | 193, 645 | Pea |
| | | Nut | 69, 328 | Slack |
| | | Egg | 122, 673 | Miscellaneous |
| | | | | 16, 301 |

124
3, 624, 572

TONNAGE BY MINING METHODS

| | |
|--|-------------|
| <u>MINED</u> - Electric undercutting machines | 1, 068, 208 |
| Solid pick | 471, 159 |
| <u>LOADED</u> - Mechanically, using no or very little hand labor | 918, 498 |
| Hand-loaded onto mechanical loaders | 300, 090 |
| Hand-loaded into pit cars | 320, 779 |
| <u>CUT AND LOADED BY CONTINUOUS MINING MACHINES</u> | 1, 391, 374 |
| <u>STRIPPED - OPEN PITS (8)</u> | 693, 831 |

SHIPMENT AND DISPOSAL Direct to Power Plants by Conveyors

| | | | |
|--------------------------------------|--------------------|----------------------------------|----------|
| Shipped by rail | 2, 625, 992 | Cameo to Public Service | 92, 124 |
| Shipped by truck | 893, 917 | Oliver #3 to Western Colo. Power | 3, 822 |
| Used for power and heat at the mines | 104, 663 | Shipped out of State | 750, 936 |
| <u>MEN EMPLOYED (Average number)</u> | Underground 1, 538 | Surface | 396 |
| | | Strip | 117 |

2, 051
10.4
170
29, 721

DAILY PRODUCTION PER MINER

DAYS WORKED (Average number per mine)

DAILY CAPACITY OF ALL MINES (as reported)

UNDERGROUND MECHANICAL & ELECTRIC EQUIPMENT - See pages 24 and 25

MINING MACHINERY - Electric Undercutting 193 Electric Drills 278

Electric Shearing 1

Compressed Air Drills 77 Combination 1

MECHANICAL LOADERS - Shakers 121 Mainline conveyors 27

Mobile 65 Chain conveyors 32

Power shovels 2 Portable conveyors 1

CONTINUOUS MINING MACHINES - Undercutting and loading - 17

HAULAGE MACHINERY -

Locomotives

Electric Trolley 83
Electric Battery 55
Electric Cap 3, 377

Hoists
Electric 105

Shuttle Cars 78

LAMPS: Flame Safety 467

STRIP MACHINERY & EQUIPMENT

| | | | | | |
|--------------|----|-------------|---|---------------|----|
| Bulldozers | 11 | Drag lines | 5 | Power shovels | 5 |
| Caterpillars | 6 | Jackhammers | 8 | Scarifiers | 3 |
| Compressors | 6 | Drills | 9 | Tractors | 9 |
| Carryalls | 3 | Loaders | 4 | Trucks | 17 |

| | | | | | |
|---------------------|-------------|----------|----------|----------|---------|
| EXPLOSIVES (Pounds) | Permissible | Special | Dynamite | Cardox | Airdox |
| Underground mines | 593, 900 | | 2, 850 | 15 mines | 2 mines |
| Strip mines | 48, 265 | 699, 580 | 40, 697 | | |

SURFACE & MISCELLANEOUS

| | | | | | |
|------------------------------|-----|----------------|----|-----------------------|-----------------|
| Hoists: Gas | 22 | Steam | 3 | Electric | 52 |
| Tipples: Gravity | 48 | Mechanical | 53 | | |
| Ventilation fans: Exhaust | 58 | Force | 38 | | |
| Coal washing plants | 2 | Steam plants | 12 | Box car loaders | 44 |
| Pumps: Electric | 196 | Compressed air | 11 | Bath houses | 24, Showers 407 |
| Air Compressors: Underground | 39 | Surface | 20 | Rock dusting machines | 39 |
| Telephones | 192 | Gravity Planes | 1 | Aerial trams | 1 |
| Battery Charging Stations | 33 | | | | |

SAFETY EQUIPMENT

| | | | |
|---------------|-----|---|----|
| Self-rescuers | 358 | Oxygen breathing apparatus (McCaa & Chemox) | 29 |
| Inhalators | 5 | Gas Masks | 21 |

GENERAL INFORMATION (As Reported)

| | | | | | | | | | |
|---------------------------------|----------|-------------|----|---------------------|---|--------|----|-------------|----|
| Shaft Mines | 5 | Rock slopes | 17 | Rock tunnels | 4 | Drifts | 72 | Coal Slopes | 47 |
| Tons of coal chemically treated | 242, 639 | | | Tons of coal washed | | | | 10, 071 | |
| Number of mines: On railroads | 23 | | | Roof-bolted | 8 | | | | |

ACCIDENTS See Page 27

| | | | | | | |
|---------------|------------|----|--------|---|----------|---|
| Total number: | Fatalities | 2 | Widows | 2 | Children | 5 |
| | Non-Fatals | 78 | | | | |

D I R E C T O R Y

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|-------------------------|----------------|-------------------|---------|----------|
| Alvidrez Coal | Florence | Black Knight #3 | Same | Fremont |
| Annex Coal | " | Annex | " | " |
| Annex Coal | " | Annex #2 | " | " |
| Baca-Vigil Coal | Valdez | Baca-Vigil | " | Las A. |
| Baldy Coal | Trinidad | Baldy #2 | " | " |
| Barstow, Aul & Peterson | Palisade | Blue Flame | Same | Mesa |
| Bear Coal | Somerset | Bear | " | Gunnison |
| Beer Coal & Const. Inc. | Florence | Beer Strip | " | Fremont |
| Bendetti, Henry & Louis | Glenwood Spgs. | New South Canon | " | Garfield |
| Berwind Canyon Coal | Trinidad | Berwind Canyon | " | Las A. |
| Bisulco, Alex | Aguilar | Bisulco | Same | Las A. |
| Black Beauty Coal | Walsenburg | Black Beauty | " | Huerfano |
| Blue Blaze Coal | " | Black Hawk #2 | " | " |
| Blue Ribbon Coal | Paonia | Blue Ribbon | " | Delta |
| Boulder Valley Coal | Denver 2 | Boulder Valley #3 | Dacono | Weld |
| Bowman Coal | Trinidad | Bowman's | Same | Las A. |
| Brodhead Coal | " | Brodhead #4-A | " | " |
| Brooks, Ira T. | Cedaredge | Green Valley #2 | " | Delta |
| C. F. & I. Corp. | Pueblo | Allen | Weston | Las A. |
| C. F. & I. Corp. | " | Frederick | Valdez | " |
| Caldirola Fuel | Florence | Caldirola #2 | Same | Fremont |
| Can. Blk. Diam. Coal | " | Can. Blk. Diam. | " | " |
| Canon National Coal | " | Canon National | " | " |
| Canon Oak Creek Coal | " | Canon Oak Creek | " | " |
| Casias, Eloy | Trinidad | Berwind #4 | " | Las A. |
| Cason, Vernon | Durango | Blue Flame | Same | La Plata |
| Cedar Canon Coal | Florence | Cedar Canon | " | Fremont |
| Champion Coal Mng. | Somerset | Hawk's Nest | " | Gunnison |
| Clarke Coal | Palisade | Winger | " | Mesa |
| Clayton Coal | Denver 2 | Lincoln | Erie | Weld |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|--------------------|-------|---------------|----------------|-----------|------------------|-------|------|-----|-----------------|
| | | | Shaft Depth | Rock | Rock | Drift | Ft. | In. | Pitch % - ° |
| | | | | Slope | Tunnel Length | | | | |
| C. Alvidrez | | 15 | | | | Yes | | 4 | 3 ⁰ |
| Nickie Rocchio | | 33 | | | | Yes | 4 | 6 | 7% |
| Nickie Rocchio | | 12 | | | | Yes | 6 | | 2% |
| Pete Vigil | | 5 | | | | Yes | 4 | | |
| D. A. Johnson | | 6 | | | | Yes | 5 | 6 | |
| W. S. Barstow | | 20 | | | | Yes | 5 | 6 | 3% |
| W. A. Bear | D&RG | 475 | | | 300 | | 6 | | 3-4% |
| Lloyd J. Beer | | 100 | STRIP | | | | 3 | 6 | 7% |
| Henry Bendetti | | 25 | | | 30 | | 5 | | 57 ⁰ |
| Ole Madsen | | 12 | | | | Yes | 4 | 10 | |
| Sam Gonzales | | 7 | | | | Yes | 4 | | 6% |
| Mariano Pesina | | 14 | | | | Yes | 4 | | 2% |
| Albert Amiday | | 10 | | | | | 2 | 8 | 4% |
| Dean Allen | | 20 | | | | Yes | 6 | | 5% |
| Thomas Harris | U. P. | 1, 000 | 245 | | | | 7 | | |
| John Bowman | | 2 | | | | Yes | 2 | 10 | |
| Sam Vasquez | | 15 | | | | Yes | 3 | 6 | 3% |
| Ira T. Brooks | | 50 | | 150 | | | 5 | 6 | 3% |
| L. W. Ingles | C&W | 3, 500 | | 1, 578(E) | (W) | Yes | 5 | | 2-30% |
| F. C. Bennett | C&W | 2, 000 | | | | Yes | 3-4 | | |
| Fred Del Duca | | 50 | | 480 | | | 4 | 8 | 5% |
| Frank Yellico | | 75 | | | | | 6 | 7 | 6% |
| Raymond Jermance | | 100 | | | | | 5 | 10 | |
| John E. Griffin | | 3 | | | | | 5 | 6 | 35 ⁰ |
| Eloy Casias | | 10 | | | | Yes | 4 | | 1% |
| Vernon Cason | | 10 | | | | Yes | 6 | | 2% |
| Charles Farrington | | 100 | | | | Yes | 6 | | 2% |
| Ralph Audin | D&RG | 300 | | 300 | | | 8 | | |
| R. M. Clarke | | 8 | | | | | 4 | 6 | 5% |
| Wm. Ferguson | U. P. | 1, 200 | | 1, 800 | | | 9 | | |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|------------------------|----------------|--------------------|-----------|----------|
| Clayton Coal | Denver 2 | Washington | Erie | Weld |
| Coal Crk. Can. Mng. | Florence | Coal Creek Canon | Same | Fremont |
| Coles, W. E. | New Castle | New Castle-Vulcan" | | Garfield |
| Colowyo Coal | Denver 2 | Red Wing | Craig | Moffat |
| Corley Co., The | Colo. Spgs. | Corley Strip #1 | Florence | Fremont |
| Corley Co., The | Colo. Spgs. | Pioneer Canon #1 | Florence | Fremont |
| Corley Co., The | " " | Pioneer Canon #2 | " | " |
| Corley Co., The | " " | Superior Strip | " | " |
| Delcarbon Coal | Walsenburg | Calumet #2 | Same | Huerfano |
| Double Dick Coal | Florence | Double Dick | " | Fremont |
| Dry Creek Coal | Hayden | Cardinal | Same | Routt |
| Eagle Head Coal | Gr. Junction | McGinley | " | Mesa |
| Edna Coal | Denver 2 | Edna Strip | Oak Creek | Routt |
| Edna Coal | Denver 2 | Navajo Strip | Nucla | Montrose |
| Ellis Coal | Somerset | Black Beauty | Same | Gunnison |
| Emmons Bros. Coal | Paonia | Emmons | Same | Delta |
| Fogg, Lyndon H. | Cedaredge | Red Canon #1 | " | " |
| Four Mile Coal | Glenwood Spgs. | Four Mile | " | Garfield |
| Franceville Coal | Colo. Spgs. | Franceville Strip | " | El Paso |
| Garcia, Joe M. & Della | Trinidad | Anchor #2 | " | Las A. |
| Golden Quality Coal | Canon City | Golden Quality #4 | Same | Fremont |
| Grey Creek Coal | Trinidad | Grey Creek #4 | " | Las A. |
| Guadagnoli Bros. | " | Engleville | " | " " |
| Haas, William, Jr. | Rifle | Black Raven | " | Garfield |
| Hayden Coal | Hayden | Babson | " | Routt |
| Hay Gulch Coal | Hesperus | Hay Gulch #2 | Same | La Plata |
| Hesperus Coal | Hesperus | Hesperus #4 | " | " " |
| Hunt, William M. | Durango | Burnwell #1 | Hesperus | " " |
| Imperial Coal | Denver 2 | Eagle | Erie | Weld |
| Imperial Coal | Denver 2 | Imperial | " | " |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAMS | | |
|--------------------|-------|---------------|----------|--------|--------|-------|-------|-----|-------------------|
| | | | Shaft | Rock | Rock | Drift | Ft. | In. | Pitch % - ° |
| | | | Depth | Slope | Tunnel | | | | |
| | | | | Length | | | | | |
| William Ferguson | U. P. | 1,200 | 430 | | | | 9 | | |
| Steve Kopic | | 50 | | | | Yes | 4 | 6 | 5% ⁰ |
| Coles, W. E. | | 50 | | | 1,400 | | 7 | | 48% ⁰ |
| J. Arthur Haske | | 900 | | 125 | | | 23 | | 3-6% ⁰ |
| T. E. Shelnutt | | 600 | | STRIP | | | 8 | 4 | 8% ⁰ |
| T. E. Shelnutt | | 600 | | 200 | | | 5 | | 8% ⁰ |
| T. E. Shelnutt | | 500 | | | | Yes | 8 | | |
| T. E. Shelnutt | | 43 | | STRIP | | | 3 | 6 | 6% ⁰ |
| George Sudar | D&RG | 100 | | 700 | | | 4 | 2 | 4% ⁰ |
| Joe Rohar | | 100 | | | | | 5 | 11 | 7% ⁰ |
| E. R. Todd | | 300 | | | | Yes | 12 | | 7% ⁰ |
| Bryan Nichols | | 12 | | | | Yes | 7 | | |
| G. A. Hays | D&RG | 1,800 | | STRIP | | | 4 | | 6% ⁰ |
| A. R. Ross | | 400 | | STRIP | | | 5 | | 5% ⁰ |
| Ellis Axelson | | 85 | | | | Yes | 10 | 6 | |
| Maurice Emmons | | 30 | | | | | 8 | 6 | 6% ⁰ |
| Lyndon H. Fogg | | 30 | | 350 | | | 4 | 6 | 6% ⁰ |
| R. C. Martin | | 20 | | 350 | | | 8 | | 40% ⁰ |
| L. F. Gordley | | 50 | | STRIP | | | 6-7 | | |
| Joe M. Garcia | | 3 | | | | | 5 | 6 | |
| Dominic Carestia | | 75 | | | | Yes | 6 | 6 | 3% ⁰ |
| Lawrence Rivera | | 10 | | | | Yes | 3 | 6 | 3% ⁰ |
| Charles Guadagnoli | | 10 | | | | Yes | 9 | 6 | |
| William Haas, Jr. | | 15 | | | | Yes | 22 | | 67% ⁰ |
| Shirl Prewitt | | 9 | | | | Yes | 10 | | 16% ⁰ |
| W. C. Hunt | | 6 | | | | Yes | 6 | | 3% ⁰ |
| Joe De Luzio | | 10 | | | | Yes | 9 | 1 | 4% ⁰ |
| William M. Hunt | | 10 | | | | Yes | 4 | 6 | |
| Frank Kolar | U. P. | 1,500 | 370 | | | | 9 | | 1½% ⁰ |
| Frank Kolar | U. P. | 900 | 300 | | | | 10 | 6 | |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|---------------------------|--------------------|-----------------|----------|----------|
| Iuppa, Albert & Son | Trinidad | Starkville #4 | Same | Las A. |
| Jenkins.&Mathis Coal | Meeker | Rienau | " | Rio Bl. |
| Joe's Coal | Raton, N. M. | Delagua #4 | Trinidad | Las A. |
| Joe's Coal | Oak Creek | Joe's | Same | Routt |
| Juanita Coal & Coke | Bowie | King | " | Delta |
| Kerr Coal | Cameo | Cameo | Same | Mesa |
| King Coal | Hesperus | King | " | La Plata |
| Leader Coal | Sopris | Leader #3 | " | Huerfano |
| Liberty Mining | Canon City | Canon Liberty#3 | " | Fremont |
| Lovisone & Colarelli | " " | L & C #2 | " | " |
| Major Coal, Inc. | Walsenburg | Pioneer | Same | Huerfano |
| Martinez, Albert | Cokedale | Martinez | " | Las A. |
| Mathews, John | Oak Creek | Johnnie's | " | Routt |
| Mays, W. E. | Hesperus | Burnwell #2 | " | La Plata |
| McNeil Coal Corp. | Denver 2 | Sterling | Dacono | Weld |
| Mid-Continent C. & C. | Carbondale | Dutch Creek | Same | Pitkin |
| Minerals Dev. Corp. Colo. | Salt Lake City, U. | Oliver #3 | Somerset | Gunnison |
| Minerals Dev. Corp. Colo. | " " " | " Somerset | " | Gunnison |
| Montez, Genaro | Trinidad | Delagua #3½ | Same | Las A. |
| Montoya Brothers | " | Aguiar-Imperial | " | " " |
| Morning Glory Coal | Walsenburg | Morning Glory | Same | Huerfano |
| Moschetti, N. J. | Canon City | Canon Zenith #2 | " | Fremont |
| Nix, Ammon E. | Nucla | Independence | " | Montrose |
| North Fork Coal | Denver 2 | Edwards | Somerset | Gunnison |
| Nu-Mine Coal | Gunnison | Nu-Mine #2 | Same | " |
| P & M Coal Mng. | Steamboat Spgs. | Osage Strip | Same | Routt |
| Pantazes, Pete | Aguiar | Prosperity #2 | " | Las A. |
| Paterson, Mack R. | Fruita | Hy-Grade | " | Mesa |
| Peacock Coal | Durango | Peacock | " | La Plata |
| Peacock Coal | Trinidad | Peacock | " | Las A. |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAM | | |
|------------------------|-------|---------------|----------|--------|--------|-------|------|-----|----------------|
| | | | Shaft | Rock | Rock | Drift | Ft. | In. | Pitch % - 0 |
| | | | Depth | Slope | Tunnel | | | | |
| | | | | Length | | | | | |
| Albert Iuppa, Jr. | | 38 | | 300 | | | 5 | | |
| William Jenkins, Jr. | | 30 | | | | Yes | 18 | | 18° |
| Joe Sonchar, Jr. | | 8 | | | | | 5 | | |
| Joe Petranovich | | 7 | | | | Yes | 5 | 8 | 6% |
| Robert F. Bowie D&RG | | 300 | | | | | 16 | | 7% |
| Harold J. Kissell D&RG | | 500 | | | 950 | Yes | 6 | | 3° |
| Irvin A. Smith | | 25 | | | | Yes | 6 | | 5% |
| Charles E. Langowski | | 8 | | | | Yes | 4 | | |
| Frank Adamic | | 50 | | 2,500 | | | 3 | 4 | 6% |
| Ted Colarelli | | 13 | | | | | 4 | 8 | 12% |
| Louis Bellotti | | 25 | | 25 | | | 5 | | 25% |
| Albert Martinez | | 2 | | | | | 2 | 4 | |
| John Mathews | | 5 | | | | | 4 | 8 | 4½% |
| W. E. Mays | | 23 | | | | Yes | 5-6 | | 3% |
| A. W. Newcomb U. P. | | 550 | 358 | | | | 7 | 11 | |
| Ed Selan | D&RG | 1,200 | | | | Yes | 6 | 8 | 14° |
| Fritz Nyman | D&RG | 250 | | | | Yes | 7 | | 6% |
| Fritz Nyman | D&RG | 1,000 | | | | | 8-9 | | 6% |
| Genaro Montez | | 3 | | | | Yes | 5 | | |
| Leo Montoya, Jr. | | 25 | | | | Yes | 6 | 6 | 2% |
| G. M. Turner | D&RG | 175 | | | | Yes | 4 | 6 | |
| Nick J. Moschetti | | 20 | | | | | 3 | 2 | 5% |
| A. E. Nix | | 10 | | | | Yes | 4 | 6 | 5% |
| C. E. Pauley | D&RG | 175 | | | | Yes | 6 | | |
| Joseph E. Partch | | 150 | | | | Yes | 6 | | 3% |
| T. C. Dewey | D&RG | 1,500 | | STRIP | | | 8 | | |
| Pete Pantazes | | 4 | | | | | 2 | 6 | 7° |
| Mack R. Paterson | | 20 | | | | | 3 | 6 | 15% |
| G. M. Gale | | 15 | | | | Yes | 6 | | 2-3% |
| Eugene Lopez | | 25 | | | | Yes | 6 | | |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|------------------------|------------|--------------------|------------|----------|
| Peerless Coal | Durango | Peerless | Same | La Plata |
| Phillips, H. B. | Palisade | Gearhart | " | Mesa |
| Pilcher, Oren A. | Mancos | Coal King #2 | " | La Plata |
| Prendergast, & Son | New Castle | Rex | " | Garfield |
| Rapson Coal | Walsenburg | Rapson #2 | " | Las A. |
| Rasmussen, William | Hesperus | Rasmussen | Same | La Plata |
| Red Ash Coal | Walsenburg | Maitland #2 | " | Huerfano |
| Red Glow Coal | Aguilar | Red Glow | " | Las A. |
| Rex Carbon Fuel | Florence | Rex Carbon | " | Fremont |
| Rosebud Coal Sales | Denver 2 | Rosebud Strip | Coalmont | Jackson |
| Routt Mining Corp. | Oak Creek | Keystone | Same | Routt |
| Rugby Coal | Trinidad | Rugby #6 | Pryor | Huerfano |
| Salazar Coal | " | Starkville #7 | Same | Las A. |
| Silengo Coal | Canon City | Canon Monarch #4 | " | Fremont |
| Smith, A. G. | Gunnison | Baldwin | " | Gunnison |
| Smith Coal | Trinidad | Berwind #5 | Same | Las A. |
| Staples, S. L., Jr. | Gunnison | Ohio Creek #2 | " | Gunnison |
| States Coal | Cedaredge | Top | " | Delta |
| Strainer Coal | Canon City | Canon Wolf Crk. #2 | " | Fremont |
| Sullivan Coal | Oak Creek | Apex | " | Routt |
| Supancic, Louis | Cameo | River View | Same | Mesa |
| Thompson Crk. C&CCorp | Denver 3 | Thompson Crk. #1 | Carbondale | Pitkin |
| Thompson Crk. C&CCorp. | Denver 3 | Thompson Crk. #2 | " | " |
| Thompson Crk. C&CCorp. | Denver 3 | Thompson Crk. #3 | " | Pitkin |
| Thompson Crk. C&CCorp. | Denver 3 | Thompson Crk. #5 | " | " |
| Tolley, C. A. & Eileen | New Castle | Harvey Gap #3 | Same | Garfield |
| Tomahawk Coal | Delta | Tomahawk | " | Delta |
| Twin Pines Coal | Canon City | Twin Pines | " | Fremont |
| Vento Coal | Florence | Vento | " | " |
| Victory Coal | Durango | Victory #3 | " | La Plata |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAMS | | |
|---------------------|-------|---------------|----------|--------|--------|-------|-------|-----|--------------|
| | | | Shaft | Rock | Rock | Drift | Ft. | In. | Pitch °-0 |
| | | | Depth | Slope | Tunnel | | | | |
| | | | | Length | | | | | |
| Everett Bixler | | 15 | | | | Yes | 4 | 6 | 10% |
| H. B. Phillips | | 30 | | | | Yes | 5 | | |
| Oren A. Pilcher | | 10 | | | | Yes | 6 | 6 | |
| F. L. Prendergast | | 10 | | | | Yes | 8 | | 32° |
| James Christy | | 40 | | 2,200 | | | 5 | | 12% |
| William Rasmussen | | 15 | | | | Yes | 5 | 6 | 4% |
| Clarence Clair | | 75 | | | | Yes | 4 | 6 | 5% |
| Clifford Smith | | 2 | | | | Yes | 3 | 8 | 7% |
| Frank Sacchetta | | 70 | | 450 | | | 3 | 10 | 12% |
| Mike Evans | U. P. | 3,000 | | STRIP | | | 10 | 10 | 15-45° |
| Carl Steele | D&RG | 22 | | | | | 5 | 10 | 17% |
| Clyde S. Dawn | | 6 | | 150 | | | 4 | | 13° |
| John Salazar | | 19 | | | | Yes | 4 | | |
| Charles L. Silengo | | 65 | | | | Yes | 5 | 6 | 10% |
| A. G. Smith | | 10 | | | | Yes | 6 | | |
| Frank Smith | | 5 | | | | Yes | 6 | 6 | 1° |
| S. L. Staples, Jr. | | 7 | | | | Yes | 5 | | 5% |
| W. W. States | | 30 | | 180 | | | 7 | | 6% |
| Anton Strainer, Jr. | | 30 | | | | Yes | 6 | 6 | 3% |
| Robert L. Sullivan | | 30 | | | | Yes | 4 | 8 | 7% |
| Louis Supancic | | 25 | | | | Yes | 6 | | 5% |
| Andrew Allan | | 500 | | | | Yes | 7 | | 30° |
| Andrew Allan | | 100 | | | | Yes | 7 | | 30° |
| Andrew Allan | | 250 | | | | Yes | 9 | | |
| Andrew Allan | | 15 | | | | Yes | 9 | | 30° |
| C. A. Tolley | | 20 | | | | Yes | 7 | | 45° |
| Gene Yellico | | 60 | | | | Yes | 11 | | 6% |
| Budgie C. Fazzino | | 45 | | | | Yes | 5 | 6 | 4% |
| Tony Vento | | 100 | | | | | 5 | 10 | |
| William Gerard | | 125 | | | | Yes | 6 | | 5% |

| COMPANY | ADDRESS | MINE | ADDRESS | COUNTY |
|------------------------|--------------|--------------|---------|----------|
| Vista Coal | Walsenburg | Gordon | Same | Huerfano |
| White River Fuel | Vernal, Utah | White River | Rangely | Rio Bl. |
| Wright Fuel | Hesperus | Wright #1 | Same | La Plata |
| Zellitti, F., N., & C. | Durango | Morning Star | " | " " |

| Superintendent | R. R. | Daily Cap. | OPENINGS | | | | SEAMS | | |
|---------------------|-------|---------------|----------|-------|--------|-------|-------|-----|-----------------------|
| | | | Shaft | Rock | Rock | Drift | Ft. | In. | Pitch |
| | | | Depth | Slope | Tunnel | | | | $\frac{\text{°}}{\%}$ |
| | | | Length | | | | | | |
| James Ludvig | D&RG | 150 | | | | | 4 | | 5 ⁰ |
| Robert Staley | | 55 | | | | Yes | 10 | 7 | 8% |
| Glen Wright | | 14 | | | | Yes | 5 | | 3% |
| Frank Zellitti, Jr. | | 20 | | | | Yes | 5 | 10 | 7% |

REPORT OF PRODUCTION

MEN, DAYS, ACCIDENTS - BY COUNTY - BY MINE

| COUNTY MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS | |
|---------------------|--------------------------|--------------------|---------------|---------|-----------|----------|
| | | | | | Fatal | Non-Fat. |
| DELTA | | | | | | |
| Blue Ribbon | Blue Ribbon Coal | 4 | 116 | 2,920 | | 1 |
| Emmons | Emmons Brothers Coal | 7 | 231 | 6,965 | | |
| Green Valley #2 | Brooks, Ira T. | 4 | 211 | 8,177 | | |
| King | Juanita Coal & Coke | 23 | 165 | 41,555 | | |
| Red Canon #1 | Fogg, Lyndon H. | 4 | 196 | 4,627 | | |
| Tomahawk | Tomahawk Coal | 4 | 103 | 3,454 | | |
| Top | States Coal | 3 | 141 | 2,200 | | |
| TOTALS - 7 | | 49 | 1,163 | 69,898 | - | 1 |
| EL PASO | | | | | | |
| Franceville Strip | Franceville Coal | 3 | 159 | 3,883 | | |
| TOTALS - 1 | | 3 | 159 | 3,883 | - | - |
| FREMONT | | | | | | |
| Annex (Clsd.) | Annex Coal | 2 | 104 | 3,438 | | 1 |
| Annex #2 | Annex Coal | 2 | 116 | 1,419 | | |
| Beer Strip | Beer Coal & Const., Inc. | 3 | 235 | 25,584 | | |
| Black Knight #3 | Alvidrez Coal | 4 | 306 | 6,269 | | 1 |
| Caldirola #2 | Caldirola Fuel | 4 | 259 | 9,735 | | |
| Canon Black Diamond | Canon Black Diamond Coal | 6 | 203 | 19,617 | | 1 |
| Canon Liberty #3 | Liberty Mining | 4 | 185 | 6,235 | | |
| Canon Monarch #4 | Silengo Coal | 5 | 232 | 17,117 | | |
| Canon National | Canon National Coal | 6 | 278 | 15,206 | | |
| Canon Oak Creek | Canon Oak Creek Coal | 2 | 65 | 138 | | |

| | | | | | | |
|---------------------|------------------------------|-----|-------|---------|---|----|
| Canon Wolf Creek #2 | Strainer Coal | 7 | 177 | 5,692 | | |
| Canon Zenith #2 | Moschetti, N. J. | 4 | 252 | 3,110 | | |
| Cedar Canon | Cedar Canon Coal | 6 | 255 | 12,969 | | 2 |
| Coal Creek Canon | Coal Creek Canon Mining | 5 | 227 | 12,675 | | |
| Corley Strip #1 | Corley Company, The | 5 | 24 | 4,025 | | |
| Double Dick | Double Dick Coal | 5 | 232 | 7,129 | | |
| Golden Quality #4 | Golden Quality Coal | 4 | 232 | 16,870 | | 1 |
| L & C #2 | Lovisone & Colarelli | 5 | 182 | 2,452 | | |
| Pioneer Canon #1 | Corley Company, The | 13 | 129 | 18,211 | | |
| Pioneer Canon #2 | Corley Company, The | 12 | 206 | 63,004 | | 2 |
| Rex Carbon | Rex Carbon Fuel | 4 | 253 | 11,990 | | |
| Superior Strip | Corley Company, The | 2 | 23 | 981 | | |
| Twin Pines | Twin Pines Coal | 5 | 256 | 10,812 | | 1 |
| Vento | Vento Coal | 9 | 254 | 25,704 | | 3 |
| TOTALS - 24 | | 124 | 4,685 | 300,382 | - | 12 |
| <u>GARFIELD</u> | | | | | | |
| Black Raven | Haas, William, Jr. | 3 | 193 | 3,363 | | |
| Four Mile | Four Mile Coal | 2 | 285 | 2,807 | | |
| Harvey Gap #3 | Tolley, C. A. & Eileen | 4 | 171 | 2,501 | | |
| New Castle-Vulcan | Coles, W. E. | 3 | 106 | 2,289 | | 1 |
| New South Canon | Bendetti, Louis & Henry | 4 | 285 | 3,838 | | 1 |
| Rex | Prendergast & Son | 2 | 123 | 492 | | |
| TOTALS - 6 | | 18 | 1,163 | 15,290 | - | 2 |
| <u>GUNNISON</u> | | | | | | |
| Baldwin | Smith, A. G. | 3 | 200 | 907 | | |
| Bear | Bear Coal | 36 | 141 | 48,290 | | 1 |
| Black Beauty | Ellis Coal | 7 | 159 | 11,857 | | |
| Edwards | North Fork Coal | 11 | 172 | 22,781 | | |
| Hawk's Nest | Champion Coal Mining | 25 | 152 | 34,662 | | |
| Nu-Mine #2 | Nu-Mine Coal | 10 | 226 | 17,153 | | |
| Ohio Creek #2 | Staples, S. L., Jr. | 3 | 265 | 2,622 | | 1 |
| Oliver #3 | Minerals Dev. Corp. of Colo. | 23 | 59 | 12,297 | | |
| Somerset | Minerals Dev. Corp. of Colo. | 78 | 171 | 121,717 | | 3 |
| TOTALS - 9 | | 196 | 1,545 | 272,286 | - | 5 |

| COUNTY MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS | |
|-----------------------|------------------------|--------------------|---------------|---------|-----------|----------|
| | | | | | Fatal | Non-Fat. |
| HUERFANO | | | | | | |
| Black Beauty | Black Beauty Coal | 4 | 227 | 2,311 | | 1 |
| Black Hawk #2 | Blue Blaze Coal | 2 | 83 | 377 | | 1 |
| Calumet #2 | Delcarbon Coal | 20 | 160 | 17,522 | | |
| Gordon | Vista Coal | 6 | 213 | 11,005 | | |
| Leader #3 (Clsd.) | Leader Coal | 2 | 49 | 358 | | |
| Maitland #2 | Red Ash Coal | 10 | 208 | 11,972 | | 1 |
| Morning Glory | Morning Glory Coal | 11 | 200 | 14,329 | | |
| Pioneer | Major Coal Co., Inc. | 4 | 229 | 2,116 | | 1 |
| Rugby #6 | Rugby Coal | 5 | 89 | 1,198 | | 1 |
| TOTALS - 9 | | 64 | 1,458 | 61,188 | - | 5 |
| JACKSON | | | | | | |
| Rosebud Strip (Clsd.) | Rosebud Coal Sales | 17 | 206 | 169,903 | | |
| TOTALS - 1 | | 17 | 206 | 169,903 | - | - |
| LA PLATA | | | | | | |
| Blue Flame | Cason, Vernon | 2 | 40 | 389 | | |
| Burnwell #1 | Hunt, William M. | 2 | 206 | 2,655 | | |
| Burnwell #2 | Mays, W. E. | 2 | 60 | 682 | | |
| Coal King #2 | Pilcher, Oren A. | 2 | 188 | 1,857 | | |
| Hay Gulch #2 | Hay Gulch Coal | 1 | 210 | 1,127 | | |
| Hesperus #4 | Hesperus Coal | 2 | 180 | 966 | | |
| King | King Coal | 3 | 218 | 4,713 | | 1 |
| Morning Star | Zellitti, F., N., & C. | 2 | 217 | 2,363 | | |
| Peacock | Peacock Coal | 3 | 245 | 3,211 | | |
| Peerless | Peerless Coal | 1 | 30 | 110 | | |
| Rasmussen | Rasmussen, William | 2 | 191 | 2,329 | | |
| Victory #3 | Victory Coal | 5 | 262 | 11,477 | | 3 |
| Wright #1 | Wright Fuel | 2 | 66 | 1,120 | | |
| TOTALS - 13 | | 29 | 2,113 | 32,999 | - | 4 |

| LAS ANIMAS | | | | | | |
|---------------------|------------------------|-----|--------|----------|---|--|
| Aguilar-Imperial | Montoya Bros. | 3 | 110 | 928 | 2 | |
| Allen | C. F. & I. Corporation | 363 | 155 | 450, 669 | | |
| Anchor #2 | Garcia, Joe M. & Della | 2 | 144 | 342 | | |
| Baca-Vigil (Clsd.) | Baca-Vigil Coal | 3 | 23 | 116 | | |
| Baldy #2 | Baldy Coal | 3 | 163 | 992 | | |
| Berwind #4 | Casias, Eloy | 3 | 190 | 803 | | |
| Berwind #5 | Smith Coal | 3 | 109 | 341 | | |
| Berwind Canyon | Berwind Canyon Coal | 5 | 190 | 2, 262 | | |
| Bisulco | Bisulco, Alex | 2 | 73 | 512 | | |
| Bowman's | Bowman Coal | 2 | 93 | 189 | | |
| Brodhead #4-A | Brodhead Coal | 2 | 207 | 757 | | |
| Delagua #3½ (Clsd.) | Montez, Genaro | 2 | 66 | 188 | | |
| Delagua #4 | Joe's Coal | 5 | 30 | 230 | 4 | |
| Engleville | Guadagnoli Bros. | 2 | 170 | 1, 682 | | |
| Frederick | C. F. & I. Corporation | 435 | 147 | 219, 857 | | |
| Grey Creek #4 | Grey Creek Coal | 4 | 169 | 1, 210 | | |
| Martinez | Martinez, Albert | 1 | 240 | 457 | 1 | |
| Peacock | Peacock Coal | 5 | 244 | 5, 364 | | |
| Prosperity #2 | Pantazes, Pete | 3 | 237 | 831 | | |
| Rapson #2 | Rapson Coal | 7 | 248 | 6, 933 | | |
| Red Glow | Red Glow Coal | 2 | 177 | 360 | | |
| Starkville #4 | Iuppa, Albert & Son | 10 | 250 | 9, 622 | | |
| Starkville #7 | Salazar Coal | 2 | 40 | 427 | | |
| TOTALS - 23 | | 869 | 3, 475 | 705, 072 | | |

| COUNTY MINE | COMPANY OR OPERATOR | No. Men Average | Total Days | TONNAGE | ACCIDENTS | |
|-------------------|------------------------------|--------------------|---------------|---------|-----------|----------|
| | | | | | Fatal | Non-Fat. |
| MESA | | | | | | |
| Blue Flame | Barstow, Aul & Petersen | 3 | 220 | 4,396 | | 5 |
| Cameo | Kerr Coal | 46 | 241 | 92,719 | | |
| Gearhart | Phillips, H. B. | 6 | 140 | 3,027 | | |
| Hy-Grade | Paterson, Mack R. | 5 | 151 | 2,019 | 1 | |
| McGinley | Eagle Head Coal | 3 | 207 | 1,658 | | |
| River View | Supancic, Louis | 3 | 170 | 2,008 | | |
| Winger | Clarke Coal | 3 | 104 | 1,382 | | |
| TOTALS - 7 | | 69 | 1,233 | 107,209 | 1 | 5 |
| MOFFAT | | | | | | |
| Red Wing | Colowyo Coal | 38 | 172 | 125,805 | | 2 |
| TOTALS - 1 | | 38 | 172 | 125,805 | - | 2 |
| MONTROSE | | | | | | |
| Independence | Nix, Ammon E. | 3 | 114 | 923 | | |
| Navajo Strip | Edna Coal | 12 | 191 | 79,895 | | |
| TOTALS - 2 | | 15 | 305 | 80,818 | - | - |
| PITKIN | | | | | | |
| Dutch Creek | Mid-Continent Coal & Coke | 61 | 247 | 251,865 | 1 | 2 |
| Thompson Creek #1 | Thompson Creek C. & C. Corp. | 85 | 239 | 125,750 | | 7 |
| Thompson Creek #2 | Thompson Creek C. & C. Corp. | 16 | 239 | 24,553 | | 1 |
| Thompson Creek #3 | Thompson Creek C. & C. Corp. | 35 | 239 | 53,766 | | 5 |
| Thompson Creek #5 | Thompson Creek C. & C. Corp. | 3 | 132 | 1,590 | | |
| TOTALS - 5 | | 200 | 1,096 | 457,524 | 1 | 15 |
| RIO BLANCO | | | | | | |
| Rienau | Jenkins & Mathis Coal | 3 | 235 | 6,570 | | 1 |
| White River | White River Fuel | 4 | 153 | 4,914 | | 2 |
| TOTALS - 2 | | 7 | 388 | 11,484 | - | 3 |

| | | | | | | | |
|--------------------|---------------------|-------|--------|-----------|---|--|----|
| <u>ROUTT</u> | | | | | | | |
| Apex | Sullivan Coal | 4 | 41 | 952 | | | |
| Babson | Hayden Coal | 2 | 68 | 607 | | | |
| Cardinal | Dry Creek Coal | 15 | 180 | 53,865 | | | 1 |
| Edna Strip | Edna Coal | 39 | 100 | 160,625 | | | |
| Joe's | Joe's Coal | 2 | 27 | 79 | | | |
| Johnnie's | Mathews, John | 2 | 75 | 171 | | | |
| Keystone | Routt Mining Corp. | 6 | 184 | 4,091 | | | |
| Osage Strip | P & M Coal Mining | 36 | 177 | 248,935 | | | 3 |
| TOTALS - 8 | | 106 | 852 | 469,325 | - | | 4 |
| <u>WELD</u> | | | | | | | |
| Boulder Valley #3 | Boulder Valley Coal | 45 | 226 | 129,194 | | | 2 |
| Eagle | Imperial Coal | 63 | 199 | 260,753 | | | 1 |
| Imperial | Imperial Coal | 15 | 148 | 59,132 | | | 1 |
| Lincoln | Clayton Coal | 39 | 137 | 67,356 | | | 4 |
| Sterling | McNeil Coal Corp. | 26 | 185 | 80,125 | | | |
| Washington | Clayton Coal | 59 | 211 | 144,946 | | | 5 |
| TOTALS - 6 | | 247 | 1,106 | 741,506 | - | | 13 |
| GRAND TOTALS - 124 | | 2,051 | 21,119 | 3,624,572 | 2 | | 78 |

COAL SHIPMENT AND DISPOSAL

| COUNTY | RAILROAD | TRUCK | POWER & HEAT (At Mine) | OUT OF STATE | CHEM. TREATED |
|------------|-----------|---------|------------------------------|-----------------|------------------|
| Delta | 35,755 | 33,838 | 305 | 21,055 | 11,654 |
| El Paso | | 3,883 | | | |
| Fremont | 9,688 | 290,624 | 70 | 5,436 | 220 |
| Garfield | | 15,288 | 2 | | |
| Gunnison | 217,616 | 50,098 | 4,572* | 145,663 | 45,538 |
| Huerfano | 13,233 | 47,955 | | 14,500 | 6,862 |
| Jackson | 169,903 | | | | |
| La Plata | | 32,999 | | | 1,785 |
| Las Animas | 668,143 | 33,938 | 2,991 | 8,296 | |
| Mesa | | 15,036 | 92,173** | | 1,271 |
| Moffat | 107,468 | 18,337 | | | 59,699 |
| Montrose | | 80,818 | | | |
| Pitkin | 457,524 | | | 457,524 | |
| Rio Blanco | 3,276 | 8,208 | | 3,980 | 8,553 |
| Routt | 428,620 | 40,670 | 35 | 94,482 | 82,566 |
| Weld | 514,766 | 222,225 | 4,515 | | 24,491 |
| TOTALS | 2,625,992 | 893,917 | 104,663 | 750,936 | 242,639 |

* Western Colorado Power Plant from Oliver #3, by conveyor 3,822 T.

** Public Service Power Plant from Cameo, by conveyor 92,124 T.

SIZES, GRADES, BY COUNTY

| MINE RUN | LUMP | EGG | OTHER GRADES | NUT | PEA | SLACK |
|----------|---------|---------|-----------------|--------|---------|-----------|
| 15,888 | 18,608 | | | 3,802 | 659 | 30,941 |
| 3,883 | | | | | | |
| 149,628 | 17,454 | 20 | 984 | 8,063 | 5,695 | 118,538 |
| 2,289 | 1,859 | | 61 | 555 | | 10,526 |
| 139,119 | 33,580 | 556 | | 7,008 | | 92,023 |
| 1,334 | 10,027 | 11,314 | 458 | 6,976 | 2,242 | 28,837 |
| 55 | | | | | | 169,848 |
| 20,270 | 3,861 | 11 | | 1,016 | 2,123 | 5,718 |
| 5,492 | 3,862 | 264 | 260 | 659 | 669,314 | 25,221 |
| 790 | 2,855 | 11 | 528 | 896 | 82 | 102,047 |
| | 16,709 | | | 25,932 | | 83,164 |
| 79,895 | 444 | | | 113 | | 366 |
| 457,524 | | | | | | |
| | 1,373 | 730 | | 946 | | 8,435 |
| 5,071 | 33,245 | 9,467 | 13,974 | 9,099 | 79,314 | 319,155 |
| | 49,768 | 100,300 | 36 | 4,263 | 14,120 | 573,019 |
| 881,238 | 193,645 | 122,673 | 16,301 | 69,328 | 773,549 | 1,567,838 |

MECHANICAL LOADING

| COUNTY | Shaker Type | MECHANDICAL LOADERS | | | | | | | Small Portable Conveyors | TONS OF COAL TOTALLY LOADED BY MECHANICAL DEVICES (None or very little hand labor) |
|------------|-------------|---------------------|-------------|----------|-------|--------|-------------|--------------|--------------------------|---|
| | | Chain Conveyors | | Mainline | | Mobile | | Power Shovel | | |
| | | Short Face | Room Length | Belt | Chain | Track | Caterpillar | | | |
| Delta | 3 | | 1 | | | 4 | 3 | | | 56,899 |
| El Paso | | | | | | | | | | |
| Fremont | 19 | 3 | 8 | | 1 | | 13 | 1 | | 169,483 |
| Garfield | | 2 | | | | | | | 1 | |
| Gunnison | 14 | | 1 | 3 | | | 11 | | | 268,757 |
| Huerfano | 10 | | 5 | | 2 | | | | | 17,522 |
| Jackson | | | | | | | | | | |
| La Plata | 4 | | | | | | | | | |
| Las Animas | 25 | 1 | | 10 | 3 | | 10 | 1 | | |
| Mesa | 15 | | | | | | | | | 92,719 |
| Moffat | | | | | | | 3 | | | 125,805 |
| Montrose | | | | | | | | | | |
| Pitkin | 18 | 5 | 4 | 5 | | | 2 | | | 53,766 |
| Rio Blanco | 3 | 1 | | | | | 3 | | | 4,914 |
| Routt | 6 | | 1 | 1 | | | 3 | | | 58,563 |
| Weld | 4 | | | 2 | | | 13 | | | 70,070 |
| TOTALS | 121 | 12 | 20 | 21 | 6 | 4 | 61 | 2 | 1 | 918,498 |

COLORADO - 1960

| TONS OF COAL HAND LOADED ONTO MECHANICAL DEVICES | MINING MACHINERY | | | | | | TOTAL TONNAGE |
|--|------------------|-------------------|--|-----------------|--------------------------|-------------------|------------------|
| | Undercutting | Electric Shearing | Combination Undercutting and Electric Shearing | Electric Drills | Compressed Air Drills | Continuous Miners | |
| | 8 | | 2 | 13 | | | 69,898 |
| | | | | | | | 3,883 |
| 81,960 | 35 | | 1 | 43 | | 1 | 300,382 |
| | 2 | | | 13 | 1 | | 15,290 |
| | 26 | | 2 | 29 | | | 272,286 |
| 22,393 | 26 | | | 14 | | | 61,188 |
| | | | | | | | 169,903 |
| 16,190 | 17 | | | 12 | | | 32,999 |
| 14,608 | 12 | | 5 | 28 | 75 | 3 | 705,072 |
| 6,228 | 20 | | | 17 | 1 | | 107,209 |
| | 3 | | | 6 | | | 125,805 |
| | 1 | | | 1 | | | 80,818 |
| 150,303 | | | | 28 | | 3 | 457,524 |
| 6,570 | 4 | | | 7 | | | 11,484 |
| 1,031 | 14 | | | 16 | | | 469,325 |
| 807 | 25 | 1 | 1 | 50 | | 10 | 741,506 |
| 300,090 | 193 | 1 | 11 | 277 | 77 | 17 | 3,624,572 |

Mined and Loaded by Continuous Miners:

| | | |
|-------------------|---|---------|
| Fremont County | - | 18,211 |
| Las Animas County | - | 450,669 |
| Pitkin County | - | 251,865 |
| Weld County | - | 670,629 |

COAL PRODUCTION FROM 1864 THROUGH 1960

| <u>Year</u> | <u>Tonnage</u> | <u>Year</u> | <u>Tonnage</u> | <u>Year</u> | <u>Tonnage</u> |
|-------------|----------------|-------------|----------------|-------------|----------------|
| 1864 | 500 | 1896 | 3, 371, 633 | 1928 | 9, 921, 585 |
| 1865 | 1, 200 | 1897 | 3, 565, 660 | 1929 | 9, 934, 064 |
| 1866 | 6, 400 | 1898 | 4, 174, 037 | 1930 | 8, 238, 094 |
| 1867 | 17, 000 | 1899 | 4, 826, 939 | 1931 | 6, 604, 063 |
| 1868 | 10, 500 | 1900 | 5, 495, 734 | 1932 | 6, 616, 525 |
| 1869 | 8, 000 | 1901 | 6, 021, 405 | 1933 | 5, 284, 872 |
| 1870 | 4, 500 | 1902 | 7, 522, 923 | 1934 | 5, 251, 003 |
| 1871 | 15, 600 | 1903 | 7, 775, 302 | 1935 | 5, 953, 601 |
| 1872 | 68, 540 | 1904 | 6, 776, 551 | 1936 | 6, 868, 801 |
| 1873 | 69, 997 | 1905 | 8, 989, 631 | 1937 | 7, 222, 092 |
| 1874 | 77, 372 | 1906 | 10, 308, 421 | 1938 | 5, 730, 291 |
| 1875 | 95, 838 | 1907 | 10, 965, 640 | 1939 | 6, 002, 125 |
| 1876 | 117, 666 | 1908 | 9, 773, 007 | 1940 | 6, 673, 359 |
| 1877 | 160, 000 | 1909 | 10, 722, 490 | 1941 | 7, 008, 037 |
| 1878 | 200, 630 | 1910 | 12, 104, 887 | 1942 | 8, 131, 764 |
| 1879 | 322, 732 | 1911 | 10, 197, 595 | 1943 | 8, 372, 683 |
| 1880 | 375, 000 | 1912 | 11, 016, 948 | 1944 | 8, 202, 401 |
| 1881 | 706, 744 | 1913 | 9, 268, 939 | 1945 | 7, 656, 612 |
| 1882 | 1, 161, 479 | 1914 | 8, 201, 423 | 1946 | 5, 928, 823 |
| 1883 | 1, 220, 593 | 1915 | 8, 715, 397 | 1947 | 6, 381, 016 |
| 1884 | 1, 130, 024 | 1916 | 10, 522, 185 | 1948 | 5, 682, 512 |
| 1885 | 1, 398, 796 | 1917 | 12, 515, 305 | 1949 | 4, 578, 170 |
| 1886 | 1, 436, 211 | 1918 | 12, 658, 055 | 1950 | 4, 274, 887 |
| 1887 | 1, 791, 735 | 1919 | 10, 406, 543 | 1951 | 4, 111, 945 |
| 1888 | 2, 185, 477 | 1920 | 12, 514, 693 | 1952 | 3, 643, 523 |
| 1889 | 2, 400, 629 | 1921 | 9, 141, 947 | 1953 | 3, 598, 867 |
| 1890 | 3, 075, 781 | 1922 | 10, 003, 610 | 1954 | 2, 922, 365 |
| 1891 | 3, 512, 632 | 1923 | 10, 336, 735 | 1955 | 3, 366, 490 |
| 1892 | 3, 771, 234 | 1924 | 10, 501, 088 | 1956 | 3, 303, 661 |
| 1893 | 3, 947, 056 | 1925 | 10, 440, 387 | 1957 | 3, 324, 787 |
| 1894 | 3, 021, 028 | 1926 | 10, 616, 760 | 1958 | 2, 972, 191 |
| 1895 | 3, 339, 495 | 1927 | 9, 781, 580 | 1959 | 3, 293, 686 |
| | | | | 1960 | 3, 624, 572 |

FATAL ACCIDENTS

| Date | Name | Mine | County | Cause | Occupation | Age | Exp. |
|------|-----------------------|------------|--------|-----------|------------|-----|--------|
| 1-19 | John Murphy | Dutch Crk. | Pitkin | Haulage | Miner | 41 | 1 mo. |
| 9-2 | Claude D. Harvey, Jr. | Hy-Grade | Mesa | Roof fall | Miner | 51 | 5 yrs. |

FIVE YEAR COMPARISION

| NON-FATALS | | | | | FATALS | | | | | |
|------------|------|------|------|------|---------------------|------|------|------|------|------|
| 1956 | 1957 | 1958 | 1959 | 1960 | Causes of Injury | 1956 | 1957 | 1958 | 1959 | 1960 |
| 9 | 9 | 9 | 12 | 15 | Falls of roof | 1 | | 1 | 2 | 1 |
| 6 | 7 | 2 | 6 | 8 | Fall of face or rib | 1 | | | | |
| 6 | 8 | 12 | 7 | 6 | Falling objects | | | | | |
| 5 | 5 | 4 | 4 | 9 | Falls of persons | | | 1 | | |
| 12 | 8 | 11 | 7 | 13 | Handling materials | | | | | |
| 8 | 5 | 6 | 2 | 5 | Hand tools | | | | | |
| | 1 | 3 | 1 | 3 | Striking vs objects | | | | | |
| 10 | 15 | 15 | 1 | 12 | Haulage | | | | | 1 |
| 3 | | | | | Explosion of gas | | | | | |
| 5 | 1 | 1 | 3 | 1 | Explosives | | | | | |
| 4 | | 1 | 1 | | Electricity | | | | | |
| 13 | 14 | 17 | 8 | 4 | Machinery | | | | | |
| 1 | 2 | 4 | 2 | | Jack pipes | | | | | |
| 1 | 1 | | | 1 | R. R. cars | | | | | |
| 1 | | | | 1 | Others | | | | | |
| 84 | 76 | 85 | 63 | 78 | TOTALS | 2 | 0 | 2 | 2 | 2 |

ACCIDENTS STATISTICS

| | Fatalities | | Non-Fatals | |
|-------------------------|------------|-----------|------------|--------|
| | 1959 | 1960 | 1959 | 1960 |
| Fatalities | 2 | 2 | | |
| Non-Fatals/Compensable | | | 63 | 78 |
| Per 1,000 employed | 0.103 | 0.98 | 32.39 | 38.03 |
| Men employed per injury | 973 | 1,026 | 30.87 | 26.29 |
| Tonnage per injury | 1,646,843 | 1,812,286 | 52,281 | 46,469 |
| Per million tons | 0.607 | 0.552 | 19.12 | 21.52 |
| Dependents: | | | | |
| Widows | 1 | 2 | | |
| Children | 3 | 5 | | |

Successful Candidates in Examination for Coal Mine Officials

December 3, 1960

| <u>Mine Foreman</u> | <u>Fire Boss</u> | <u>Additional Rating After Fire Boss Experience</u> |
|-------------------------------|------------------------|---|
| Abelin, Mangus | Beebe, Lloyd G. | Mine Foreman |
| Bendetti, Henry | *x Biondich, Mathew | |
| Corey, Pete | *Carden, Bobby Ray | Assistant Mine Foreman |
| Del Duca, Fred | De Angelis, Louis | Assistant Mine Foreman |
| Emmons, John T. | xDraper, Donald L. | Mine Foreman |
| Emmons, Maurice | Felthager, Jack D. | Mine Foreman |
| Morrison, Archibald M. | Felthager, James E. | Mine Foreman |
| *Pauley, Clarence E. | Garcia, Daniel | Assistant Mine Foreman |
| Piccioni, Veloy Keith | Gillie, Henry D. | Assistant Mine Foreman |
| Silengo, Charles Louis | Gilmore, Frank L., Jr. | Mine Foreman |
| *Sonchar, Joe, Jr. | Gomez, Adeliadio | Assistant Mine Foreman |
| Tiller, Clarence | *Griego, Alfred L. | Mine Foreman |
| Wareham, Max | Iuppa, Albert, Jr. | Mine Foreman |
| Woolfe, George Edward | Madrid, Pete | Assistant Mine Foreman |
| Yourston, Robert E. | *Martinez, Joe M. | Mine Foreman |
| | Milkovich, Steven | Assistant Mine Foreman |
| | Montoya, Milton | Mine Foreman |
| | *x Moser, Jack S. | Mine Foreman |
| | Pantazes, Nick Pete | Mine Foreman |
| | Pantazes, Tom Pete | |
| | *Quintero, Trinidad | |
| | Roybal, Juan De J. | Mine Foreman |
| <u>Assistant Mine Foreman</u> | Safley, Deloy | Mine Foreman |
| *Palomino, Charles | Seeley, Lee | Mine Foreman |
| | Steele, Carl Duane | Assistant Mine Foreman |
| | *Steele, Gordon | Mine Foreman |
| | Tavella, John Fred | |
| | *Torres, Jose Ricardo | |
| | Urioste, Marcelino G. | Assistant Mine Foreman |
| | Vecellio, Albert | Mine Foreman |
| | Wardlaw, Raymond H. | Mine Foreman |
| | White, Jack Virgil | Mine Foreman |

*Hold for First Aid

xHold for Colorado Residence

Strip Pit Mine Foreman

| | | |
|-------------------|-----------------|----------------------|
| Brown, Wendell W. | Browner, Milton | McKinney, Charles E. |
|-------------------|-----------------|----------------------|







